

# Recent IBM Patents

*The following patents were recently issued by the countries in which the inventions were made.*

## France

|           |                                                                           |                                                 |
|-----------|---------------------------------------------------------------------------|-------------------------------------------------|
| 7,003,048 | N. Garcia                                                                 | Two-Wire Switching Network                      |
| 7,313,775 | A. Gavarret, P. Guillermin,<br>A. Lanceau, A. Senizergues and<br>F. Roult | Numerical Slaving System for a Computer         |
| 7,317,607 | N. Monrolin                                                               | Digital Resolver Filter and Receiver Using Same |
| 7,326,403 | J. P. Beraud                                                              | Sine Wave Generator                             |

## Germany

|           |                                                                      |                                                                       |
|-----------|----------------------------------------------------------------------|-----------------------------------------------------------------------|
| 2,017,400 | F. Schedewie                                                         | Measuring Microscope                                                  |
| 2,025,815 | H. Painke, G. Knauff,<br>F. Koederitz, L. Riechl and<br>R. Vachenaue | An Apparatus for Error Information Logging and Data Processing System |
| 2,139,836 | G. R. Makosch and W. R. Jaerisch                                     | Method of Measuring Irregularities in Evenness of Surfaces            |
| 2,155,802 | K. Najmann                                                           | Monolithic Integrated Memory System                                   |
| 2,426,869 | H. H. Lampe, P. Rudolph and<br>A. Deuerlein                          | Measuring and Display System                                          |
| 2,427,323 | A. Frosch and H. Korth                                               | Optical Copying                                                       |
| 2,448,743 | H. G. Nauth                                                          | Azimuth Angle Measuring Apparatus                                     |

## United States

|           |                                                               |                                                                                                      |
|-----------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 3,946,484 | J. Aronstein and W. E. Harding                                | Continuous Processing System                                                                         |
| 3,948,706 | A. F. Schmeckenbecher                                         | Method for Metallizing Ceramic Green Sheets                                                          |
| 3,949,168 | D. M. Taub                                                    | Selectively Clamped Digital Signal Transmission System                                               |
| 3,949,208 | W. C. Carter                                                  | Apparatus for Detecting and Correcting Errors in an Encoded Memory Word                              |
| 3,949,228 | P. M. Ryan                                                    | Method for Controlling an Electron Beam                                                              |
| 3,949,274 | W. Anacker                                                    | Packaging and Interconnection for Superconductive Circuitry                                          |
| 3,949,278 | J. R. Kinnard and E. R. Williams, Jr.                         | Document Transfer Device Drive                                                                       |
| 3,949,381 | R. H. Dennard and<br>D. P. Spampinato                         | Differential Charge Transfer Sense Amplifier                                                         |
| 3,949,383 | H. O. Askin, E. C. Jacobson<br>J. M. Lee and G. Sonoda        | D. C. Stable Semiconductor Memory Cell                                                               |
| 3,949,385 | G. Sonoda                                                     | D. C. Stable Semiconductor Memory Cell                                                               |
| 3,949,386 | E. Klokholm and T. S. Plaskett                                | Bubble Domain Devices Using Garnet Materials with Single Rare Earth Ion on all Dodecahedral Sites    |
| 3,949,387 | P. Chaudhari, J. J. Cuomo,<br>R. J. Gambino and T. R. McGuire | Beam Addressable Film Using Amorphous Magnetic Material                                              |
| 3,949,395 | M. Klein                                                      | Successive-Approximation Analog-to-Digital Converter Using Josephson Devices                         |
| 3,949,410 | E. Bassous, L. Kuhn and<br>H. H. Taub                         | Jet Nozzle Structure for Electrohydrodynamic Droplet Formation and Ink Jet Printing System Therewith |
| 3,949,977 | R. Wustrau                                                    | Staging Apparatus                                                                                    |
| 3,950,658 | G. L. Mattson                                                 | Data Separator with Compensation Circuit                                                             |
| 3,950,682 | G. J. Dohanich, Jr.                                           | Digital DC Motor Velocity Control System                                                             |
| 3,950,732 | H. Chang, T. C. Chen, S.-Y. Lee<br>and C. Tung                | Single Technology Text Editing System                                                                |
| 3,950,783 | G. D. Herring and D. R. Wilson                                | Disk File Access Mechanism                                                                           |
| 3,951,710 | J. S. Basi                                                    | Method for Removing Copper Contaminant from Semiconductor Surfaces                                   |

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|-----------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 3,952,231 | L. A. Davidson, M. C. Duffy,<br>G. Erickson, G. R. Gunther-Mohr<br>and R. A. Williams | Functional Package for Complex Electronic Systems with Polymer-Metal<br>Laminates and Thermal Transposer          |
| 3,952,329 | R. F. Dent, III and R. C. Schneider                                                   | Pulse Compression Recording                                                                                       |
| 3,952,852 | J. C. Greek, Jr. M. E. McBride<br>and H. C. Tanner                                    | Column Format Control System                                                                                      |
| 3,953,013 | J. E. Griffith and D. D. Grossman                                                     | Method and Apparatus for Clamping a Workpiece in a Quasi-Liquid<br>Medium                                         |
| 3,953,264 | L. L. Wu                                                                              | Integrated Heater Element Array and Fabrication Method                                                            |
| 3,953,265 | R. K. Hood                                                                            | Meniscus-Contained Method of Handling Fluids in the Manufacture of<br>Semiconductor Wafers                        |
| 3,953,281 | A. A. Pantusco, W. J. Pinckney,<br>G. R. Santillo, Jr. and G. J. Scharff              | Method and System for Growing Monocrystalline Ingots                                                              |
| 3,953,562 | G. F. Hait and R. W. Nufer                                                            | Process for the Elimination of Dimensional Changes in Ceramic<br>Green Sheets                                     |
| 3,953,749 | W. Baechtold and P. L. Gueret                                                         | Binary Circuitry Including Switching Elements Utilizing<br>Superconductive Tunneling Effects                      |
| 3,953,789 | W. S. Veeman and C. S. Yannoni                                                        | Method of Polarizing Nuclei                                                                                       |
| 3,953,839 | R. T. Dennison and D. B. Eardley                                                      | Bit Circuitry for Enhance-Deplete RAM                                                                             |
| 3,953,841 | O. Voegeli                                                                            | Closed Loop Bubble Lattice System and Method for Stabilizing<br>Bubble Lattice Initialization                     |
| 3,953,842 | H. L. Hu, W. A. Reynolds, Jr.<br>and L. L. Rosier                                     |                                                                                                                   |
| 3,953,874 | A. Aviram, M. J. Freiser,<br>P. E. Seiden and W. R. Young                             | Organic Electronic Rectifying Devices                                                                             |
| 3,953,890 | D. J. Wanek and W. Westphal                                                           | Information Retrieval Machine Which uses a Cassette for Holding<br>Tape Cartridges                                |
| 3,953,891 | T. L. Wilmoth                                                                         | Soundhead Restore Mechanism for use in a Disc Machine                                                             |
| 3,954,085 | E. G. Nassimbene                                                                      | Self-Restoring Changeable Exhibitor/Keyboard                                                                      |
| 3,954,520 | T. J. Beaulieu, M. A. Marchese,<br>F. T. Plante and R. H. Tlaskal                     | Process for the Production of Magnetic Materials                                                                  |
| 3,954,523 | I. E. Magdo, S. Magdo and<br>W. J. Nestork                                            | Process for Fabricating Devices Having Dielectric Isolation Utilizing<br>Anodic Treatment and Selective Oxidation |
| 3,955,203 | W. L. Chocholaty                                                                      | High Voltage Deflection Electrode Apparatus for Ink Jet                                                           |
| 3,955,210 | H. S. Bhatia, G. D. O'Rourke and<br>S. K. Wiedmann                                    | Elimination of SCR Structure                                                                                      |
| 3,955,213 | R. D. Brower and N. L. Robinson                                                       | Intermediate Product Assembly of a Magnetic Head                                                                  |
| 3,955,269 | I. E. Magdo and S. Magdo                                                              | Fabricating High Performance Integrated Bipolar and Complementary<br>Field Effect Transistors                     |
| 3,955,811 | D. K. Gibson                                                                          | Paper Stack Height Control in a Multibin Copier                                                                   |
| 3,956,052 | W. W. Koste and E. N. Urfer                                                           | Recessed Metallurgy for Dielectric Substrates                                                                     |
| 3,956,527 | I. E. Magdo and S. Magdo                                                              | Dielectrically Isolated Schottky Barrier Structure and Method of<br>Forming the Same                              |
| 3,956,615 | T. G. Anderson, W. A. Boothroyd<br>and R. C. Frey                                     | Transaction Execution System with Secure Data Storage and<br>Communications                                       |
| 3,956,635 | T. H. P. Chang                                                                        | Combined Multiple Beam Size and Spiral Scan Method for Electron<br>Beam Writing of Microcircuit Patterns          |
| 3,956,641 | H. H. Berger and S. K. Wiedmann                                                       | Complementary Transistor Circuit for Carrying out Boolean Functions                                               |
| 3,956,766 | C. C. Hanson and F. K. King                                                           | Counter Resetting Circuitry for Magnetic Disk System                                                              |